

BARTKUS, T.I. (Vil'nyus); GIKIS, I.I. (Vil'nyus); LAPIYENIS, F.P.
[Lapienis, F.] (Vil'nyus); LUKOSHEVICHYUS, S.K. [Lukosevicius,
S.] (Vil'nyus); MESHCHERYAKOV, V.V. (Vil'nyus); TEL'KSHIS, L.A.
(Vil'nyus)

Specialized electronic computer for correlation and spectral
analysis of video and magnetic recordings of random processes.
Avtom. i telem. 24 no.6:850-855 Je '63. (MIRA 16:7)

(Electronic computers)
(Perceptrons)
(Information theory)

L 16052-56 EWT(d)/T/EWP(1) IJP(c) 88/33

ACC NR: AP6002399 (A) SOURCE CODE: UR/0103/65/026/012/2170/2175

AUTHOR: Tel'ksnis, L. A. (Vilnius)

ORG: None

TITLE: Multistage pattern recognition systems 53
6

SOURCE: avtomatika i telemekhanika, v. 26, no. 12, 1965, 2170-2175

TOPIC TAGS: pattern recognition, recognition process

ABSTRACT: To reduce the amount of data in pattern recognitions a limited number of recognition signs is introduced. The recognition task is even then very complex, and the author proposes a simplification of procedures by introducing pattern recognition stages each of which eliminates unsatisfactory objects and transfers to the next stage only those data warranting a closer, more complex scrutiny. The operation of such a multistage pattern recognition system is discussed in the example of a two-stage system for which the author derives expressions for the probability of correct recognition (for individual stages), cost of pattern recognition, etc.. The results show that such multistage systems are more efficient than their single-stage counterparts. Orig. art. has: 18 formulas.

SUB CODE: 06,03,12 / SUBM DATE: 20May65 / ORIG REF: 001
Card 1/1 UDC: 621.391.193

ACC NR: AR6035572 SOURCE CODE: UR/0044/66/000/009/V046/V046

AUTHOR: Tel'ksnis, L. A.

TITLE: Evaluating the effectiveness of image parameters

SOURCE: Ref. zh. Matematika, Abs. 9V312

REF SOURCE: Sb. Avtomatika i vychisl. tekhn. Vil'nyus, 1965, 11-14

TOPIC TAGS: parameter, Euclidean space, image parameter

ABSTRACT: Methods are proposed for assessing the effectiveness of systems of Y parameters, derived by transformations from the initial data X, represented by vectors of the R-dimensional Euclidean space. The methods are based on determining the space d^{ij} between random mean values i and j of a class of patterns ($i, j = 1, \dots, m; i \neq j$). Standardization of spaces is analyzed, with allowance for the dispersion of parameters and the cost of obtaining them. The measure of quality of the system of parameters is given by the mean Q-factor

$$Q = \frac{2}{m(m-1)} \sum_{i=1, j>i}^m d^{ij}$$

and the mean nonuniformity of the quality factor of parameters

Card 1/2

UDC: 51:681.14:155

ACC NR: AR6035572

$$b = \left[\frac{2}{m(m-1)} \sum_{i=1, i \neq j}^m (\gamma_i)^2 \right]^{\frac{1}{2}},$$

where $\gamma_i = 0$ at $a < d_i$ and $\gamma_i = a - d_i$ at $a > d_i$.

[NT]

Bibliography has 2 titles. [Translation of abstract]

SUB CODE: 12/

rd 2/2

TELL, H.

Data on the parasitofauna of the fishes of Vortsjarv. p. 221.

HYDROBIOLOGICALISSED UUREMUS'D. GIDROBIOLOGICHESKIE ISSLEDOVANIA.
Tartu. Hungary. No. 1, 1958.

Monthly List of East European Accessions (WEAI) LC, vol. 8, no. 11
November 1959.

Uncl.

TELL', KH. I.,

"Parasitic Fauna of the Fishes of the Vyrts'yarv Lake." (Dissertation for Degree of Candidate of Biological Science) Acad Sci Estonian SSR, Inst of Zoology and Botany, Tartu, 1955

SO: M-1036 28 Mar 56

TELL', V.I., inzh.

Concerning V.V.Zhuravlev's article "Methods for designing lightning protection systems." Elek. sta. 36 no.8:86 Ag '65.

(MIRA 18:8)

TELLER, E. VOZENILEK, V.

Economical cleaning of water pipelines. p. 110.

British experiences with water treatment in tropical areas. p. 112.

(Voda. Vol. 36, no. 4, Apr. 1957. Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 10, October 1957. Uncl.

PA - 2897

AUTHOR TELLER E.

TITLE The General Problems of Controlable Thermonuclear Reaction. (Obshchiye problemy upravlyayemoy termoyadernoy reaktsii.- Russian)

PERIODICAL Uspekhi Fiz. Nauk 1957, Vol 61, Nr 3, pp 331 - 340 (USSR)
Received: 5/1957 Reviewed: 6/1957

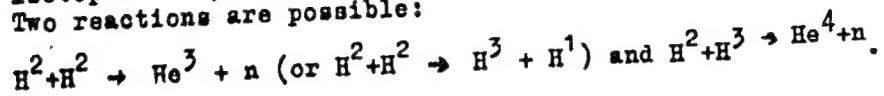
ABSTRACT The generation of energy in the stars: The energy discharged in the volume unit must be proportional to the square of the density of the nuclei participating in the reaction. The entire secret of cosmic thermonuclear reactions is based on the existence of a strong and heavy cover. Similar and even better fuel than in the stars is available at laboratories, but it is not possible to dam this fuel sufficiently.
The energy yield and the energy losses at high temperatures: A temperature of at least some keV must be attained. In a successfully working thermonuclear plant the energy discharges from nuclear reactions and transmitted to the reacting gas must at least be just as high as the radiated energy.

CARD 1/3

PA - 2897

The General Problems of Controllable Thermonuclear Reaction.

The thermonuclear fuel: Materials must be selected in which the energy is liberated at temperatures that are as low as possible and radiate as little as possible. Isotopes of hydrogen are best suited. Two reactions are possible:



The first reaction is somewhat slower, but the second is very fast. For the second reaction temperatures of some keV are sufficient, but for pure deuterium about the ten-fold temperature is necessary.

The problem of insulation: Insulation of the fuel from the walls of the container by a magnetic field would be the solution of the problem. The author then discusses hydromagnetic systems,

The advantages of thermonuclear plants (compared to reactors based on nuclear fission): Thermonuclear fuels

CARD 2/3

1
The General Problems of Controlable Thermonuclear Reaction. PA - 2897

are practically inexhaustible. The fuel deuterium requires no regeneration. The author also points to the possibility of the direct production of electricity from nuclear energy without heat.
(No Illustrations)

ASSOCIATION: not given-

SUBMITTED: -

PRESENTED BY: *

AVAILABLE: Library of Congress.

CARD 3/3

TELLER, E.; GOMOICAK, L. [translator]

General problems of the controlled thermonuclear reaction. Jaderna
energije 3 no.9:284-287 S '57.

TELLER, Lech

Remains of the *Monograptus hercynicus* from the Zdanow beds of the Bardo Mountain Range in the Sudeten. Acta geol pol 10 no.3:325-338 '60.
(EEA 10:6)

1. Laboratory of the Palaeozoic and the Mesozoic Institute of Geology, Polish Academy of Sciences.
(*Monograptus*) (Sudeten)

TELLER, Lech

Revision of the Silurian stratigraphy from the Leba
borehole. Przegl geol 10 no.11:595-597 N '62.

1. Zaklad Nauk Geologicznych, Polska Akademia Nauk,
Warszawa.

KOREJWO, Krystyna; TELLER, Lech

Upper Silurian nongraptolite fauna from the Chelm borehole
(Eastern Poland). Acta geol Pol 14 no.2:233-301 '64.

1. Stratigraphic Laboratory, Institute of Geologic
Sciences, Polish Academy of Sciences, Warsaw.

TELLER, Lech

On the stratigraphy of beds younger than Ludlovian and the
Silurian-Devonian boundary in Poland and Europe. Acta geol
Pol 14 no.2:303-320 '64.

1. Stratigraphic Laboratory, Institute of Geologic
Sciences, Polish Academy of Sciences, Warsaw.

TELLERI, Maria

For a more successful technical documentation. Musz elet 15 no.9:6
Ap '60. (EEAI 9:8)
(Hungary--Technology)

L 31725-66 EWP(k)/EWP(t)/ETI JD

ACC NR: AP6021200

SOURCE CODE: RU/0017/65/000/008/0428/0430

AUTHOR: Munteanu, P. (Engineer); Telli, I.

28
B

ORG: "Otelul Rosu" Works (Uzinele "Otelul Rosu")

TITLE: Calibration checking in the manufacture of thin sheets

SOURCE: Metalurgia, no. 8, 1965, 428-430

TOPIC TAGS: metal rolling, sheet metal

ABSTRACT:

On the basis of the calculations presented, the authors conclude that rolling mills producing 0.5 to 4 millimeter thick sheets can obtain higher productivity by reducing the number of passes; they also calculate that oxidation losses will be lowered and the quality of the pickled surfaces improved if the initial temperature for the rolling is lowered from 1,000 to 900 degrees centigrade. Orig. art. has: 2 tables. [JPRS]

SUB CODE: 13 / SUBM DATE: none / ORIG REF: 001 / OTH REF: 001
SOV REF: 001

Card 1/1 *28*

UDC: 621.771.24

TELL'KHEL'M, Erikh, Cand Agr Sci --- (miss)"Study and selection
use of western European varieties of winter wheat under con-
ditions of Leningradskaya oblast." Len-Pushkin, 1959, 17 pp
(Min of Agr RSFSR. Len Agr Inst) 100 copies (KL, 20-59, 129)

- 89 -

SIDOROVA, N.G.; TALLY, V.Yu.

Condensation of 4-cyclohexylcyclohexanol with benzene in the presence of aluminum chloride. Dokl.AN Uz.SSR no.12:43-45 '58. (MIRA 12:1)

1. Sredneaziatskiy gosudarstvennyy universitet im. V.I.Lenina.
Predstavleno chlenom-korrespondentom AN UzSSR I.P.TSukezvanikov.
(Cyclohexanol) (Benzene) (Condensation products (Chemistry))

SIDOROVA, N.G.; TELLY, V.Yu.

Cycloalkylation of aromatic compounds. Part 18: Reaction of
benzene with 4-cyclohexanol. Zhur.ob.khim. 31 no.7:2149-2155
Jl '61. (MIRA 14:7)
(Cyclohexanol) (Benzene)

"APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755210019-0

APPROVED FOR RELEASE: 07/16/2001

CIA-RDP86-00513R001755210019-0"

TSI-MAA, I.

34064. Segodnya v ²ronkovom. (O kolkhoze im. Kalidina ocherk). Sob. Ukraina, ., 1949.
s. 65-76

SO: Knizhnaya, Letopis', Vol. 7, 1955

VISOTSKIY, V. [Vysots'kyi, V.]; KVETNYI, H. [Kvietnyi, H.];
KOLESHNICHENKO, V. [Kolisnychenko, V.]; PANASENKO, M.;
TEL'MAN, I. LYUTVORT, G. [Liutvort, H.], glav. red.;
KHOMENKO, B.V., red.

[Vinnitsa; a guidebook] Vinnytsia; putivnyk. L'viv,
Vinnyts'ke obl. kryzhkovo-gazetno vyd-vo, 1961. 121 p.
(MIRA 18:5)

USOVA, Mariya Mikhaylovna; TEL'MAN, I.M., red.; ONCSHKO, N.G.,
tekhn. red.

[Closed injuries of the clavicle] Zakrytye povrezhdeniia
kliuchitsy. Leningrad, Medgiz, 1963. 103 p. (MIRA 16:10)
(CLAVICLE-FRACTURE)

Abs Jour : Ref Zhur - Biol., No 6, 1958, No 25787

Author : Tol'man P.N.

Inst : Not Given

Title : The Control of Harmful Entomological Bark Fauna in Forest Maintenance by Felling as a Method of Increasing Pine Tree Productivity. (Bor'ba s vrednoy podkorko voy entomofaunoy metodem rubok ukhoda za lesom kak zvono v povyshenii proizvoditel'nosti sosnovykh drovostoyev).

Orig Pub : Tr. Leningrad. Lesotekhnich. skad., 1956, vyp 73, 117-131

Abstract : The possibility of the existence of bark insects was determined by the degree of variation in the trees' viability which was a result of various growth conditions. In forest maintenance, trees were cut down to decrease the degree of this variation. In felling it was necessary to leave certain trees securing improvement in their living conditions and uniform distribution in the territory. The uncut trees were first of all those in the first planning stage and the most identical

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USSR/General and Special Zoology. Insects

P

Abs Jour : Ref Zhur - Biol., No 6, 1958, No 25787

in locality, degree of crown development, height and diameter. The trees which were felled were trees: 1) found under a canopy of uncut trees, 2) those whose crowns shaded medium sized trees, 3) those which the bark insects began to inhabit and those trees which were already infected by the insects and were drying up, 4) those which contained bodies of tree-destroying mushrooms and 5) those which were mechanically damaged, those with two crowns, with bent stems, etc.

Card : 2/2

TEL'MANOV, N. I.

TEL'MANOV, N. I., Cand Tech Sci -- (diss) *Study of performance of grain-loading machines.* "Investigation of the ~~performance~~ *of grain-loading machines.*" Chelyabinsk, 1957. 24 pp with graphs. *of* (Min Agr, Chelyab Inst ^{inst} of Mechanization and Electrification of Agr), # 110 110 copies. The author ~~is~~ not indicated on ~~the~~ cover. (KL, 9-58) ~~9-58~~ 9-58, 120)

L 02270-67 EWT(1)/EWT(m)/EWP(j) IJP(c) WW/GG/RM

ACC NR: AP6025257

SOURCE CODE: UR/0057/66/036/007/1285/1286

AUTHOR: Tel'minov, M.M.; Gasilov, A.L.

ORG: none

TITLE: Shift of the electron paramagnetic resonance frequency in weak magnetic fields

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 7, 1285-1286

TOPIC TAGS: EPR, weak magnetic field, frequency shift, free radical

ABSTRACT: The authors have experimentally investigated the shift in the electron paramagnetic resonance (EPR) frequency f due to the finite amplitude of the oscillating magnetic field, which, according to the theory of F. Bloch and A. Siegert (Phys. Rev., 57, 522, 1940), is given by $\delta f/f = h^2/4 + h^4/64$, where h is the ratio of the strength of the oscillating field to that of the static field. The measurements were made in static fields ranging from 0.5 to 8 Oe with oscillating fields of different amplitudes, using a frequency comparator based on EPR phenomena in free radicals. The strength of the static field was monitored by simultaneous measurement of the proton resonance frequency. The shifts were easily detectable and were in excellent agreement with the formula given above. The shift must be taken into account in the interpretation of EPR measurements in weak magnetic fields. The "apparent" change of the electron gyromagnetic ratio in weak fields noted by A.V. Kubarev and Yu.A. Mezenov (PTE, No. 6, 52, 1960) is explained by the shift under discussion. EPR heads employing

Card 1/2

L 02270-67

ACC NR: AP6025257

carbazyl are recommended for use in weak fields because of their stability, sharp resonance, and large absorption. The absorption of the carbazyl heads exceeds that of the usually employed diphenyl pioryl hydrazyl heads by a factor of 10 to 15. Orig. art. has: 3 formulas and 1 figure.

SUB CODE: 20

SUBM DATE: 05Jul65

ORIG. REF. 002

OTH REF: 001

Card

2/2

TEL'MINOVA, Ye.P.

Reclamation and cultivation of Solonetz soils. Zemledelie 7 no.9:
64-67 8 '59. (MIRA 12:11)

(Solonetz soils)

IVAN, I.M.; SOLOMON, I.; TELNICEANU, A.; GHELASE, Maria; ROMAN, V.

Dynamics of antipoliomyelitic sero-neutralizing antibodies in children vaccinated with attenuated live virus vaccine. Stud. cercet. inframicrobiol. 12 no.4:467-473 '61.

1. Comunicare prezentata la Institutul de inframicrobiologie al Academiei R.P.R. ~~la sesiunea de studii de poliomielita~~ File
(POLIOMYELITIS immunology)

IVAN, I.M., prof.; TELNICEANU, A., dr.; MAGUREANU, E., dr.; TOMA, R.,
dr.; BORDEIANU, P., dr.; CALOMFIRESCU, AL., dr.; BARBU, A., dr.;
MANOLESCU, Maria, chim.

Epidemiological aspects of inframicrobial epidemic hepatitis
in the city of Bucharest in 1960. Med. inter., Bucur 13 no.5:
703-710 My '61.

1. Catedra de epidemiologie, I.M.F., Bucuresti (for Ivan, Telniceanu,
Magureanu, Toma). 2. Sanepidul central al Capitalei (for Bordeianu,
Calomfirescu, Barbu, Manolescu).
(HEPATITIS, INFECTIOUS statistics)

RUMANIA

A. TELNICEANU, I. SOLOMON, C. BUSUIOC, E. TOMI, M. CONSTANTINESCU and M. POPESCU, Public Health Office of Capital City (Sanepidul capitalei), and Department of Epidemiology of College of Medicine and Pharmacy (Catedra de epidemiologie a Institutul de medicina si farmacie,) Bucharest.

"Seroneutralizing Poliomyelitis Antibodies in Infants Aged up to 1 Year in Bucharest City After Wide Use of Attenuated Live Vaccine."

Bucharest, Studii si cercetari de inframicrobiologie, Vol 14, No 3, 1963; pp 341-348.

Abstract [English summary modified]: There was essentially no difference in intensity and type of polio immunity among 66 infants which had never been vaccinated and 68 which had received Salk killed vaccine, 1 or 2 doses; but all of whom had been living with other family members who received Soviet imported live-attenuated vaccine during mass campaign in Bucharest in Spring 1961 (including all persons aged 1-30 years.) Three tables; 4 Rumanian and 8 Western references.

1/1

SPINU, I.; TELNICEANU, A.; SOLOMON, L.; HORTOGEA, Gila; BUSUIOC, Carmen;
VASILIU, Cristina; IUVAN, Xenia; POPESCU, P.; CAZACU, E.; TOMA, R.

Epidemiological considerations on occupational ornithotic infections.
Stud. cercet. inframicrobiol. 15 no.1:15-20 '64.

MIHAICU, Florica, dr.; TELNICEANU, A., dr.; CAZACU, E., dr.; BUSUIOC,
Carmen, dr.; CIURES, Zenovia, dr.; RESTEANU, Cecilia, dr.

Epidemic of streptococcal pharyngitis of alimentary origin.
Microbiologia (Bucur) 9 no.6:531-538 N-D '64.

1. Lucrare efectuata in Institutul de microbiologie, para-
zitologie si epidemiologie "Dr.I. Cantacuzino" si Inspectia
de stat pentru igiena si protectia muncii, Bucuresti.

IVAN, I.M., prof.; BORDEIANU, Vera, dr.; GAICULESCU, Stefania, dr.;
POPESCU, Er., dr.; ZAHARIA, C., dr.; BORDEIANU, P., dr.;
PETRESCU, R., dr.; TELNICEANU, A., dr.

Epidemiological considerations on acute enterocolitis in a district of the city of Bucharest. *Pediatrica (Bucur)* 14 no.1:45-54 Ja-F'65.

1. Lucrare efectuata in Inspectia de stat pentru igiena si protectia muncii a Raionului "Lenin" (VI) si la Catedra de epidemiologie, Institutul medico-farmaceutic, Bucuresti.

TEL'NIKHIH, V.

Shortcomings in material for technological innovations. Sots.
trud no.3:53-57 Mr '58. (MIRA 13:3)
(Incentives in industry) (Technological innovations)

TEL'NIKHI, V.F.

[Material encouragement of inventive activity and improvements in Soviet industry; author's report on a dissertation offered for the degree of candidate of economic sciences] Material'noe stimulirovanie izobretatel'stva i ratsionalizatsii v promyshlennosti SSSR; avtoreferat dissertatsii na soiskanie uchenoi stepeni kandidata ekonomicheskikh nauk. Leningrad, Leningr.gos.univ. im. A.A.Zhdanova, 1957. 16 p. (MIRA 11:5)

(Inventions) (Incentives in industry)

TEL'NIKHIIN V.P.

Economical aspects of rewards for inventions. Izobr. v SSSR 2 no.6:
23-25 Jo '57. (MLRA 10:8)

(Inventions)

TEL'NOV, A.F.

Using twin sighting in measuring horizontal angles. Geod. i kart.
no.7:20-22 J1 '63. (MIRA 16:8)
(Theodolites)

TEL'NOV, A.M., inzh.; CHERVOCHKIN, O.A., inzh.; BETIKOV, I.Ye., inzh.

Heat insulating blocks of agloporites. Stroi.mat. 8 no.1:27-28
Ja '62. (MIRA 15:5)

(Insulating materials)

VASIL'YEV, B.F.; KOSTYUKOVSKIY, M.G.; MINTS, Sh.I.; TEL'NOV, B.G.

Use of precast reinforced concrete beams and trussed girders in
roof constructions of machine-tractor station repair shops.
Stroi.prom. 32 no.4:14-18 Ap '54. (MLRA 7:5)

1. Giprotis (for Mints). 2. Stroitel'stvo Mytishchinskoy MTS (for
Tel'nov). (Girders) (Precast concrete construction)

ARTEM'YEV, Yu.N., kand. tekhn. nauk; GAL'PERIN, A.S., kand. tekhn. nauk; TEL'POV, A.S., inzh.; DYADYUSHKO, V.P., inzh.; SELIVANOV, A.I., red.; TEPTLEV, P.M., spets.red.; KUL'CHITSKIY, R.N., spets. red.; ARKHANGEL'SKIY, B.Ye., spets. red.; GINDINA, I.I., red.

[Specifications and instructions on checking for wear of the parts and couplings of T-40 tractors in repair] Tekhnicheskie usloviia i ukazaniia po defektovke detalei i sopriazhenii pri remonte traktorov T-40. Moskva, Biuro tekhn. informatsii GOSNITI, 1964. 169 p. (MIRA 18:5)

1. Perovo. Gosudarstvennyy vsesoyuznyy nauchno-issledovatel'skiy tekhnologicheskii institut remonta i ekspluatatsii mashinno-traktornogo parka. 2. Laboratoriya issledovaniya iznosov traktorov Gosudarstvennogo vsesoyuznogo nauchno-issledovatel'skogo tekhnologicheskogo instituta remonta i ekspluatatsii mashinno-traktornogo parka, Perovo (for Artem'yev, Gal'perin, Dyadyushko). 3. Vladimirskiy traktorny zavod (for Teptlev, Kul'chitskiy). 4. Lipetskiy traktorny zavod (for Arkhangel'skiy).

TEL'NOV, B.K., inzh.

Air blasting of silicate melts in producing artificial mineral
fibers. Stroi. mat. 5 no.6:10-13 Je '59. (MIRA 12:8)
(Silicates) (Mineral wool) (Glass fibers)

TEL'NOV, B. K., Cand Tech Sci -- (diss) "Gas-jet method of production of mineral fibers for the production of heat- and sound-insulating materials." Moscow, 1960. 16 pp; (Academy of Construction and Architecture USSR, All-Union Scientific Research Inst of New Building Materials); 150 copies; price not given; (KL, 26-60, 138)

MARGULIS, V.S., inzh.; BELONozhko, I.F., inzh.; TEL'NOV, B.K., kand.
tekhn. nauk

Using jet action counterflow-type mills for the grinding of
iron ores. Gor. zhur. no. 12:63-66 D '65. (MIRA 18:12)

1. Nauchno-issledovatel'skiy i proyektnyy institut po oboga-
shcheniyu i aglomeratsii rud chernykh metallov, Krivoy Rog (for
Margulis, Belonozhko). 2. Vsesoyuznyy nauchno-issledovatel'skiy
institut novykh stroitel'nykh materialov Akademii stroitel'stva
i arkhitektury SSSR (for Tel'nov).

TEL'NOV, B.K., inzh., red.; STRASHNYKH, V.P., red. izd-va; BOROVNEV, N.K.,
tekhn. red.

[Instructions on the assembly and maintenance of roofs made of corrugated asbestos cement sheets with the usual profile] Instruktsiia po montazhu i ekspluatatsii krovvel' iz volnistykh asbestotsementnykh listov obyknovennogo profil'ia SN 162-61. Utverzhdena 24 marta 1961 g. Izd. ofitsial'noe. Moskva, Gos. izd-vo lit-ry po stroit., arkhitekt. i stroit. materialam, 1961. 30 p. (MIRA 14:10)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam
stroitel'stva.

(Roofing, Asbestos cement)

TEL'NOV, B.K.; KUZAKOV, V.D.

New All-Union State Standards. Stek. 1 ker. 21 no.1:46 Ja '64.
(MIRA 17:8)

TEL'NOV, G. M. and E. I. NATANZON.

Elektronagrev stal'nykh zagotovok metodom soprotivlenia. (Vestn. Mas.,
1949, no. 6, p. 24-31)

(Electric heating of steel bars by resistance method.)

DLC: TNL.Vh

SO: Manufacturing and Mechanical Engineering in the Soviet Union,
Library of Congress, 1953.

TEL'NOV, G. M.

Natanzon, E. I., jt. au.

Induction heating by means of resistance. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1951. 185 p. (54-22440)

TN686.T4

NATASON, YE. I., TEL'NOV. G. M.

Forging.

Electro-upsetting as a means of saving metal and reducing labor expenditure.
Vest. mash. 31, no. 12, 1951.

9. Monthly List of Russian Accessions, Library of Congress, September 1953? Uncl.

TEL'NOV, G. M., NATANZON, YE. I. ENG.

Tempering

Surface tempering of push-rod adjuster bolts of automobile engines during heating with electric high frequency currents. Vest. mash. 32, No. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 1953,² Uncl.

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CIA-RDP86-00513R001755210019-0"

USSR/Engineering - Automobiles and Parts

Card 1/1 Pub. 128 - 12/25

Authors : Natanzon, Ye. I., Engineer, and Tel'nov, G. M.

Title : Introduction of electro-heating into the auto manufacturing technology

Periodical : Vest. mash. 35/4, 52-55, Apr 1955

Abstract : Basic technical-economical data are given of the old and new technological processes employed in the manufacture of valve tappets and tappet actuating systems for the 17-50, 17-50, 17-50 and 17-50 engines. It is noted that the introduction will ensure a complete mechanization of the production line. The following data are given: technical drawings, illustrations.

Institution : The Gorkiy Automobile Plant Im. Molotov

Submitted :

AID P - 4492

Subject : USSR/Engineering

Card 1/1 Pub. 128 - 19/29

Authors : Natanzon, Ye. I., Engineer, and G. M. Tel'nov (Gor'kiy Automobil Plant im. Molotov).

Title : Lowering of power requirements and of electric energy consumption in hardening with high frequency current heating.

Periodical : Vest. mash., ³⁶⁻#4, p. 70-74, Ap 1956

Abstract : Surface hardening by electric high frequency current has been found especially successful in the manufacture of small machine parts. Two methods are described as applied in the Gor'kiy Automobil Plant: 1) surface hardening by continuous-successive surface heating, 2) surface hardening with simultaneous heating and cooling. Diagrams.

Institution : None

Submitted : No date

NATANZON, Ye.I.; TEL'NOV, G.M.

Static and fatigue strength of motortruck semiaxles. Avt.prom.
no.2:36-38 F 60. (MIRA 13:5)

1. Gor'kovskiy avtozavod.
(Motortrucks—Axles)

NATANZON, Ye.I.; TEL'NOV, G.M.

Hard facing of automobile engine valve tappets by means of high-frequency currents. Avtom.svar. 14 no.9:74-78 S '61.

(MIRA 14:8)

1. Gor'kovskiy avtomobil'nyy zavod.

(Hard facing)

(Induction heating)

NATANZON, Ye.I.; TEL'NOV, G.M.; LANKIN, P.A., kandyd. tekhn. nauk,
retsensent; MAKOVSKIY, G.M., inzh., red.

[Electric induction heating and electric upsetting] Elektro-
nagrev metodom soprotivleniya i elektrovysadka. Izd.2., dop.
i perer. Moskva, Mashinostroenie, 1964. 132 p.
(MIRA 17:12)

TEL'NOV, N. F.

"Investigation of the anti-friction properties of aluminum-steel pseudoalloy as a material for repairing the bearings of tractor engines." Min Higher Education. Moscow Inst of the Mechanization and Electrification of Agriculture imeni V. M. Molotov. Moscow, 1956. (Dissertation for the Degree of Candidate in Technical Science).

SO: Knizhnaya letopis', No. 16, 1956

TEL'NOV, N.F.; KOKOROTCV, N.V., red.

[Repair of oil pumps and filters of tractor and combine engines] Remont maslianykh nasosov i fil'trov traktor-nykh i kombainovykh dvigatelei. Moskva, Izd-vo "Kolcs," 1964. 132 p. (MIRA 17:8)

USSR/ Electronics - Telecasts

Card 1/1 Pub. 89 - 21/31

Authors : Tel'nov, N.

Title : Telecast recording

Periodical : Radio 11, 37-39, Nov 1954

Abstract : The first experimental telecast recordings were made by the Moscow Research Cinephoto-Institute in 1939. In 1954, telecast recordings in the USSR were still in an experimental stage. Two types of tele-recording are discussed in the article: 1) telecine-film recording, and 2) telemagnetic tape. Diagrams are presented of each of these recording systems and the apparatus used in these systems are described. Color-telecast reception and transmission experiments were also conducted. The telecine-film recording and the magnetic tape recording systems are compared and, in view of the expressed advantages of the latter system, the author believes it will actually be introduced into practice. Diagrams.

Institution : ...

Submitted : ...

SOV/112-58-2-3202

Translation from: Referativnyy zhurnal, Elektrotehnika, 1958, Nr 2, p 220 (USSR)

AUTHOR: Tager, P. G., Tel'nov, N. I., Khinchuk, T. A., and Blazhenkov, V. A.

TITLE: An Outfit for Recording TV Programs on Movie Film

(Ustanovka dlya zapisi televizionnykh programm na kinoplenku)

PERIODICAL: Tekhnika kino i televideniya, 1957, Nr 3, pp 34-40

ABSTRACT: The difficulty in recording TV programs from a kinescope screen on movie film is indicated, as well as possible ways of solving the problem. Apparatus is described that was developed and built at NIKFI. The apparatus is based on an afterglow picture tube which, while the obturator is open, allows photographing both fields: the one being scanned on the kinescope screen, and the preceding one, still retained because of the afterglow effect. To secure equal exposure for all picture elements, special brightening pulses of a complicated shape are fed to the kinescope in addition to the video signals. Illustrations: 7. Bibliography: 4 items.

Ya. I. E.

Card 1/1

TEL'NOV, N.I., kand.tekhn.nauk

Magnetic recording of moving images. Khim.nauk i prom. ³
no.5:648-654 '58. (MIRA 11:11)

(Magnetic recorders and recording)

ENGASHEV, K.A.; TEL'NOV, P.I.

Tectonics of the southwestern part of the Kagan structural group.
Uzb.geol.zhur. 6 no.1:72-76 '62. (MIRA 15:4)

1. CIDROINGEO AN UzSSR.
(Uzbekistan--Geology, Structural)

122 A-14 5.1
TEL'NOV, S.V., kandidat tekhnicheskikh nauk

Contact relay diagram of pulse counts. Nauch.rab. VUGI no.11:92-
98 '54. (MLRA 8:11)
(Remote control) (Counting devices)

15-57-10-14930

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 10,
p 266 (USSR)

AUTHORS: Tel'nov, S. V., Karibayev, A. G.

TITLE: The Block System of Mining by STsB (Signal, Centrali-
zation, and Blocking System) (Blochnaya sistema
shakhtoy STSB)

PERIODICAL: V sb: Avtomatizatsiya v ugol'n. prom-sti. Moscow, .
Ugletekhizdat, 1956, pp 487-501

ABSTRACT: The system of STsB, now used in mines for subsurface
transport, demands considerable time for its instal-
lation and great capital expense for special electrical
equipment, planning, and repair. These drawbacks to
STsB may be eliminated by using a standard block relay
system. A brief description is given of five standard
block relay arrangements with the STsB system for sub-
surface mine transport: a block of automatic signals
effecting controlled movements on a one-way run between

Card 1/2

The Block System of Mining by STsB (Cont.)

15-57-10-14930

two sidings (with and without a branch on the run); a block of automatic signal for regulating movement from the latter at ore-hauling sidings on the one-way section; a block of automatic signals regulating the movement along a one-way run between the last siding and the adjoining two or three one-way sections; a block of centrally controlled dispatching directions, by a signal, for movement along a definite route (route-signal block); a block in which traffic directing signals may be operated from a central point. The block systems are practicable in normal use where there is no danger from explosions. Different block combinations in the system of STsB may be worked out to regulate all the movement on subsurface rail transport in the mine. The authors also discuss the questions associated with arrangement, planning, and repair of the system of STsB during use of the relay blocks as described.

Card 2/2

R. I. Teder

TEL'NOV, S.V.; KARIBAYEV, A.G.

Mine railroad block signaling system. Ugol' 32 no.9:27-31 S '57.
(MIRA 10:10)

(Mine railroads) (Railroads--Signaling--Block system)

TEL'NOV, S.V., kand. tekhn. nauk

Improving the system of tractive power supply to mines. Nauch.
soob. IOB 26:110-116 '65. (MIRA 18:9)

TEL'NOV, V.

Saving working time is an economic law of communism. Sots. trud 7 no.12:
39-46 '63. (MIRA 16:2)

(Industrial management)

S/903/62/000/000/032/044
B102/B234

AUTHORS: Denisov, P. P., Kosareva, K. V., Tel'nov, Yu. Ya.,
Cherenkov, P. A.

TITLE: Angular distribution and energy spectrum of the C^{11} nuclei of
the $C^{12}(\gamma, n)C^{11}$ reaction

SOURCE: Yadernyye reaktsii pri mal'kikh i srednikh energiyakh; trudy
Vtoroy Vsesoyuznoy konfe-rentsii, iyul' 1960 g. Ed. by
A. S. Davydov and others. Moscow, Izd-vo AN SSSR, 1962, 474-476

TEXT: In view of the lack of data on the C^{12} photonuclear reaction at
gamma energies above 25 Mev the authors measured the energy and angular
distributions of the C_6^{11} recoil nuclei of such reactions induced by gamma
with $E_{\gamma max} = 260$ Mev. The recoil nuclei were recorded with the help of a
method described in PTE, 3, 34, 1957 which is free from the disadvantages
of the usual methods operating with cloud or bubble chambers or counters.
The measurements were made with the FIAN synchrotron bremsstrahlung and a
polystyrene film as target, collecting and control films used for recording.
Card 1/2

8106; 8234

ANNE CLARK and CAROL ANN HILL, Editors.

and of determining the background. The recoil nuclei were identified according to their 400-min β^+ activity. Corrections were made for scattering and decay. The O^{11} yield was measured at the angles 30, 45, 60, 90, 120, 150 and 180° to the x-ray at air pressures of 0, 1.7, 3.4, 4.7, and 6.5 mm Hg, and was in correspondence with energies above 0.05, 0.1, 0.2, 0.3, 0.4, 0.5, and 0.6 Mev. The yield of O^{11} was measured for 1000, 2000, 3000, 4000, 5000, 6000, 7000, 8000, 9000, 10000, 15000, 20000, 30000, 40000, 50000, 60000, 70000, 80000, 90000, 100000, 150000, 200000, 300000, 400000, 500000, 600000, 700000, 800000, 900000, 1000000, 1500000, 2000000, 3000000, 4000000, 5000000, 6000000, 7000000, 8000000, 9000000, 10000000, 15000000, 20000000, 30000000, 40000000, 50000000, 60000000, 70000000, 80000000, 90000000, 100000000, 150000000, 200000000, 300000000, 400000000, 500000000, 600000000, 700000000, 800000000, 900000000, 1000000000, 1500000000, 2000000000, 3000000000, 4000000000, 5000000000, 6000000000, 7000000000, 8000000000, 9000000000, 10000000000, 15000000000, 20000000000, 30000000000, 40000000000, 50000000000, 60000000000, 70000000000, 80000000000, 90000000000, 100000000000, 150000000000, 200000000000, 300000000000, 400000000000, 500000000000, 600000000000, 700000000000, 800000000000, 900000000000, 1000000000000, 1500000000000, 2000000000000, 3000000000000, 4000000000000, 5000000000000, 6000000000000, 7000000000000, 8000000000000, 9000000000000, 10000000000000, 15000000000000, 20000000000000, 30000000000000, 40000000000000, 50000000000000, 60000000000000, 70000000000000, 80000000000000, 90000000000000, 100000000000000, 150000000000000, 200000000000000, 300000000000000, 400000000000000, 500000000000000, 600000000000000, 700000000000000, 800000000000000, 900000000000000, 1000000000000000, 1500000000000000, 2000000000000000, 3000000000000000, 4000000000000000, 5000000000000000, 6000000000000000, 7000000000000000, 8000000000000000, 9000000000000000, 10000000000000000, 15000000000000000, 20000000000000000, 30000000000000000, 40000000000000000, 50000000000000000, 60000000000000000, 70000000000000000, 80000000000000000, 90000000000000000, 100000000000000000, 150000000000000000, 200000000000000000, 300000000000000000, 400000000000000000, 500000000000000000, 600000000000000000, 700000000000000000, 800000000000000000, 900000000000000000, 1000000000000000000, 1500000000000000000, 2000000000000000000, 3000000000000000000, 4000000000000000000, 5000000000000000000, 6000000000000000000, 7000000000000000000, 8000000000000000000, 9000000000000000000, 10000000000000000000, 15000000000000000000, 20000000000000000000, 30000000000000000000, 40000000000000000000, 50000000000000000000, 60000000000000000000, 70000000000000000000, 80000000000000000000, 90000000000000000000, 100000000000000000000, 150000000000000000000, 200000000000000000000, 300000000000000000000, 400000000000000000000, 500000000000000000000, 600000000000000000000, 700000000000000000000, 800000000000000000000, 900000000000000000000, 1000000000000000000000, 1500000000000000000000, 2000000000000000000000, 3000000000000000000000, 4000000000000000000000, 5000000000000000000000, 6000000000000000000000, 7000000000000000000000, 8000000000000000000000, 9000000000000000000000, 10000000000000000000000, 15000000000000000000000, 20000000000000000000000, 30000000000000000000000, 40000000000000000000000, 50000000000000000000000, 60000000000000000000000, 70000000000000000000000, 80000000000000000000000, 90000000000000000000000, 100000000000000000000000, 150000000000000000000000, 200000000000000000000000, 300000000000000000000000, 400000000000000000000000, 500000000000000000000000, 600000000000000000000000, 700000000000000000000000, 800000000000000000000000, 900000000000000000000000, 1000000000000000000000000, 1500000000000000000000000, 2000000000000000000000000, 3000000000000000000000000, 4000000000000000000000000, 5000000000000000000000000, 6000000000000000000000000, 7000000000000000000000000, 8000000000000000000000000, 9000000000000000000000000, 10000000000000000000000000, 15000000000000000000000000, 20000000000000000000000000, 30000000000000000000000000, 40000000000000000000000000, 50000000000000000000000000, 60000000000000000000000000, 70000000000000000000000000, 80000000000000000000000000, 90000000000000000000000000, 100000000

of the ^{13}C spin ρ , a distribution satisfied both by quadrupolar and dipolar relaxation to the ^{13}C nucleus is best when the ^{13}C nucleus is assumed to be in the state $\rho = 2$. The ^{13}C spin $\rho = 2$ has an energy of $1/2$ of the ^{13}C spin $\rho = 1$.

of the total C^{11} yield, that with $E > 1.7$ Mev amounts to only $3 \pm 2\%$. This disagrees with the calculations made by Barber et al. (Phys. Rev. 98, 73, 1951) but is, in its conclusions, in close agreement with results obtained by Borjesson et al. (ZheTF, 31, 3(3), 405, 1956). There is a figure.

ASSOCIATION: Institut fiziki im. P. N. Lebedeva AN SSSR (Institute of
Physics (Soviet P. S. Academy of Sciences))

3429-25

TEL'NOV, Yu.Ya.; YAKUSHIN, V.V.

Optimum current supply conditions for FEU-33 and FEU-36 photo-
multipliers. Prib. i tekhn. eksp. 7 no.3:136-138 My-Je '62.
(MIRA 16:7)

1. Fizicheskii institut AN SSSR.
(Photoelectric multipliers)

YAKUSHIN, V.V.; TEL'NOV, Yu.Ya.

Low counting-rate meter. Prib. i tekhn. eksp. 8 no.4:73-76
Jl-Ag '63. (MIRA 16:12)

1. Fizicheskiy institut AN SSSR.

YAKUSHIN, V.V.; TEL'NOV, Yu.Ya.

Selecting the optimum feeding conditions for FEU-33 and FEU-36 photomultipliers. Prib. 1 tekhn. eksp. 8 no.4:120-122 J1-Ag '63.
(MIRA 16:12)

1. Fizicheskii institut AN SSSR.

On January 10, 1968, the appellant was interviewed by the FBI and advised of his rights. He was then interviewed by the FBI and advised of his rights. He was then interviewed by the FBI and advised of his rights.

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CIA-RDP86-00513R001755210019-0"

KULIKOV, O.F.; TEL'NOV, Yu.Yu.; FILIPPOV, Ye.I.; YAKIMENKO, M.N.

Compton effect on moving electrons. Zhur. eksp. i teor. fiz.
47 no.4:1591-1594 O '64. (MIRA 18:1)

1. Moskovskiy gosudarstvennyy universitet i Fizicheskii institut
imeni P.N. Lebedeva AN SSSR.

TEL'NOVA, B.K.; MUMTS, V.O.

Standardizing plastic building materials. Standartizatsiia 25
no.10:25-28 0 '61. (MIRA 14:9)
(Plastics--Standards)
(Building materials--Standards)

TEL'NOVA, R.P., dotsent

Contraceptive properties of certain polyphenols. Akush.i gin. 35
no.6:11-13 N-D '59. (MIRA 13:4)

1. Iz kafedry akusherstva i ginekologii No.1 Kiyevskogo meditsin-
skogo instituta.

(PHENOLS)

(CONTRACEPTIVES)

KULIK, M.P., dotsnet; TEL'NOVA, R.P.

Clinical evaluation of the Kafka and "KH" diaphragms. Akush.i gin.
35 no.6:30-31 N-D '59. (MIRA 13:4)

1. Iz zhenskoy konsul'tatsii (glavnyy vrach N.A. Shevchuk) Stalin-
skogo rayona Kiyeva.
(CONTRACEPTIVES)

TEL'NOVA, R.P.; NEKHAYEV, V.M. [Nekhaiev, V.M.]

Spermicidal characteristics of nonvolatile phytoncide fractions
of some plants. Ped., akush. i gin. 22 no.6:55-58 '60.

(MIRA 14:10)

1. Kafedra akusherstva i ginekologii No.1 (zaveduyushchiy - prof.
M.S.Baksheyev [Baksheiev, M.S.]) i kafedra biologii (zaveduyushchiy -
prof. K.Yu.Kostryukova) Kiyevskogo ordena Trudovogo Krasnogo
Znameni meditsinskogo instituta im. akademika Bogomol'tsa (direktor-
dotsent V.D.Bratus').

(PHYTONCIDES)

(SPERMATOOA)

ARKHANGEL'SKAYA, M.P., kandidat tekhnicheskikh nauk; TEL'NOVA, V.M.,
inzhener.

Uniform methods of testing threads and yarns. Tekst.prom.14 no.1:51-53
Ja '54. (MLRA 7:2)
(Thread) (Yarn)

NOVIKOV, N.A.; TEL'NOVA, V.M.; GENTS, I.P., FEDOROVA, Ye.F.

Boxes for the transportation of artificial silk . Standartizatsiia 25
'no.2:48-49 F '61. (MIRA 14:3)

(Boxes—Standards)

TEL'NOVA, V.M.

Methods for testing ready silk pieces. Standartizatsiia 27
no.2:34-35 F '63. (MIRA 16:4)

(Silk—Standards)

TEL'NOVA, V.M.

Violation of state standards at the Bendery Silk Combine.
Standartizatsiia 27 no.5:54-55 My '63. (MIRA 16:6)

(Bendery—Silk manufacture—Standards)

TEL'NOVA, V.M.

International exhibition of "Chemistry in the industry, construction,
and agriculture." Tekst.prom. 25 no.11:97-98 N 165.

(XIRA 18:12)

USSR / Human and Animal Physiology (Normal and Pathological). Physiology of the Skeleton T

Abs Jour: Ref Zhur-Biologiya, No 21, 1958, 97808

Author : Palatnik, S. K., Tel'nova, Ye. P.

Inst : Uzbek Scientific Research Institute of Orthopedics, Traumatology, and Prosthesis

Title : Dynamics of Subordinative Chronaxis of the Muscles in Bone Tissue Regeneration

Orig Pub: Tr. Uzb. n.-i. in-ta ortopedii, travmatol. i protez., 1955, 6, 69-81

Abstract: Under ether narcosis, the tibia was fractured and a plaster cast reaching to the lower third of the femur was applied, fixing the calf in a position of flexion for 9 to 20 days. Before cast application

Card 1/3

55

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R001755210019-0
USSR / Human and Animal Physiology (Normal and Pathological). Physiology of the Skeleton T

Abs Jour: Ref Zhur-Biologiya, No 21, 1958, 97808

to healthy extremity was extremely clear. The size of R and C remained lower than normal during bone regeneration. Deviations of R and C from normal were observed in reference to the muscles of extremity to which a plaster cast was applied, as well as to the muscles of the opposite extremity. The greatest decrease of R and C was noted in the period of development of periosteal reaction and formation of fibrous callous. In the period of regeneration of osseous tissue, when rebuilding of fibrous callous into osseous took place, the C of muscles, being lower than normal, had a tendency to approach it. --F. I. Mumladze

Card 3/3

56

GAL'BINSHTEYN, Z.N., inzh.; IL'INA, N.F., inzh.; NAUMOVA, M.V., inzh.;
 FILINA, T.A., inzh.; KHODOS, M.M., inzh.; GOL'DMAN, Zh.I.;
 PATALAKH, V.G.; SNESAREV, M.M.; VUL'FSON, Ye.S., inzh.;
 KONSTANTINOVA, L.A., inzh.; SKOBELEVA, A.M., inzh.; TEL'NOVA,
 Ye.V., inzh.; KHEYFETS, L.S., inzh.; SELENEVICH, A.S.;
 NEDOVESENKO, M.V.; VOLKOVA, A.Ye.; NOVITSKIY, L.M., nauchr.red.;
 NEFEDOV, S.F., red.; ROSTOTSKIY, V.K., red.; GORDEYEV, P.A., red.
 izd-va; YUDINA, L.A., red.izd-va; VDOVENKO, Z.I., red.izd-va;
 GOL'BERG, T.M., tekhn.red.; KOROBEKOVA, N.I., tekhn. red.

[Album of new construction equipment recommended for adoption]
 Al'bom novoi stroitel'noi tekhniki, rekomenduemoi k vnedreniiu.
 Moskva, Gosstroizdat, 1963. No.1. [Industrial construction] Pro-
 myshlennoe stroitel'stv. 116 p. No.3. [Construction for transporta-
 tion purposes] Transportnoe stroitel'stvo. 91 p. No.4. [Rural
 construction] Sel'skoe stroitel'stvo. 71 p. No.5. [Building
 materials, products, and elements] Stroitel'nye materialy, izde-
 l'ia i konstruktsii. 41 p. No.8. [Construction and road machinery
 and equipment] Stroitel'nye i dorozhnye mashiny i oborudovanie.
 104 p. (MIRA 16:8)

(Building materials) (Road machinery)
 (Construction equipment)

RABINOVICH, I.B.; TEL'NOY, V.I.; NIKOLAYEV, P.N.; RAZUVAYEV, G.A.; Prinimala
uchastiye; KIRILLOVA, A.S.

Thermochemistry of the interaction between hexaethyldistannane and
benzoyl peroxide. Dokl.AN SSSR 138 no.4:852-855 Je '61.
(MIRA 14:5)

1. Institut khimii pri Gor'kovskom gosudarstvennom universitete imeni
N.I.Lobachevskogo. 2. Chlen-korrespondent AN SSSR (for Razuwayev).
(Tin compounds) (Benzoyl peroxide)

RABINOVICH, I.B.; TEL'NOY, V.I.; KIRILLOVA, A.S.; RAZUVAYEV, G.A.

Heats of decomposition and formation of dicyclohexyl- and dimethylperoxydicarbonate. Dokl. AN SSSR 143 no.1:133-136 Mr '62. (MIRA 15:2)

1. Nauchno-issledovatel'skiy institut khimii pri Gor'kovskom gosudarstvennom universitete im. N.I.Lobachevskogo 2. Chlen-korrespondent AN SSSR (for Razuvaev).
(Peroxydicarbonic acid)

S/020/63/149/002/018/028
B117/B186

AUTHORS: Rabinovich, I. B., Tel'noy, V. I., Karyakin, N. V.,
Razuvaev, G. A., Corresponding Member USSR

TITLE: Thermochemistry of tetraethyl germanium and hexaethyl
germanium

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 149, no. 2, 1963, 324-326

TEXT: The combustion and formation enthalpies of Et_4Ge and Et_6Ge_2 were determined, and the bond energies of the Ge-C and Ge-Ge bonds in these compounds were calculated. Et_4Ge was synthesized according to a method described previously (K. A. Kocheshkov, Sinteticheskiye metody v oblasti metallorganicheskikh soyedineniy (Methods of synthesis in the field of organometallic compounds), Izd. AN SSSR, no. 5, 1947, p. 11), and was thoroughly purified. Et_6Ge_2 was obtained by reaction of Et_3GeBr with metallic potassium in dry, pure nitrogen atmosphere. The combustion enthalpy was determined by a method described previously (S. M. Skuratov, A. A. Strepikheyev, et al., Uch. zap. Moskovsk. univ., 164, 73 (1953)).
Card 1/3

Thermochemistry of tetraethyl germanium ...

S/O20/63/149/002/018/028
B117/B186

The following averaged values were found:

$$-\Delta H^{\text{comb.}} \left[(\text{C}_2\text{H}_5)_4\text{Ge} \right] = 1515.6 \pm 1.5 \text{ kcal/mole}$$

$$-\Delta H^{\text{comb.}} \left[(\text{C}_2\text{H}_5)_3\text{Ge} - \text{Ge}(\text{C}_2\text{H}_5)_3 \right] = 2321.0 \pm 2.0 \text{ kcal/mole.}$$

Standard enthalpies of formation, evaporation and atomization for the liquid and gaseous phase of the compounds studied were calculated from the combustion and evaporation enthalpies of the liquids studied and from data published on the formation enthalpy of the combustion products:

Substance	$-\Delta H^{\text{form.}}_{\text{liqu.}}$	$\Delta H^{\text{evap.}}$	$-\Delta H^{\text{form.}}_{\text{g.}}$	$\Delta H^{\text{atom.}}$
$(\text{C}_2\text{H}_5)_4\text{Ge}$	50.3 ± 1.5	10.1 ± 0.3	40.2 ± 2.0	2542 ± 1
$(\text{C}_2\text{H}_5)_3\text{Ge}-\text{Ge}(\text{C}_2\text{H}_5)_3$	92.9 ± 2.0	14.9 ± 0.5	78.0 ± 2.5	3875 ± 10

From the atomisation enthalpy and mean bond energies of the C-C and C-H bonds the averaged values of bond energy of Ge-C in Et_4Ge were found to

Card 2/3

Thermochemistry of tetraethyl germanium ...

S/020/63/149/002/018/028
B117/B186

be 58.9 ± 1.5 kcal (error 1 kcal), and of Ge-Ge in Et_6Ge_2 to be 62 ± 5 kcal (error 2 kcal). In this calculation, the mean bond energy of Ge-C was taken to be equal in both compounds. The values found for the mean bond energy of the Ge-C bond indicate that the primary state which limits the rate of the process should be considered the reaction $\text{Ge}(\text{C}_2\text{H}_5)_4 \rightarrow \text{Ge}(\text{C}_2\text{H}_5)_3 + \text{C}_2\text{H}_5$ and not the decomposition to Ge and $4\text{C}_2\text{H}_5$ as stated by R. L. Geddes and E. Mack (Jr., J. Am. Chem. Soc., 53, 4372 (1930). There are 1 figure and 1 table.

ASSOCIATION: Institut khimii pri Gor'kovskom gosudarstvennom universitete im. N. I. Lobachevskogo
(Institute of Chemistry at the Gor'kiy State University imeni N. I. Lobachevskiy)

SUBMITTED: November 15, 1962

Card 3/3

TEL'NOY, V.I.; RABINOVICH, I.B.; RAZUVAYEV, G.A.

Thermochemistry of tetraethylsilicon and hexaethyldisilicon.
Dokl. AN SSSR 159 no.5:1106-1108 D '64 (MIRA 18:1)

1. Institut khimii pri Gor'kovskom gosudarstvennom universitete
im. N.I. Lobachevskogo. 2. Chlen-korrespondent AN SSSR (for
Razuvayev).

L 1646-66 EWT(m)/EPF(c)/EWP(j)/ETC(m) RPL WW/JH/RM

ACCESSION NR: AP5021427

UR/0076/65/039/008/2076/2077
541.11

AUTHOR: ^{14.54} Tel'noy, V. I.; ^{14.55} Kabinovich, I. B.

TITLE: Heats of formation of tetramethyl and tetraethyl compounds of elements in group IV of the periodic system

SOURCE: Zhurnal fizicheskoy khimii, v. 39, no. 8, 1965, 2076-2077

TOPIC TAGS: ^{14.55} tin organic compound, ¹¹ silicon organic compound, ⁷ germanium organic compound, lead organic compound, heat of formation, heat of atomization, bond energy

ABSTRACT: To find the heats of formation of the compounds $(CH_3)_4El$ and $(C_2H_5)_4El$, where $El = Si, Ge, Sn$, and Pb , use was made of a graphical method of comparative calculation proposed by M. Kh. Karapet'yants (Zh. fiz. khimii, 30, 593, 1956) and based on the fact that

$$\Delta H_{II}^{form} = A + B\Delta H_I^{form},$$

where ΔH_{II}^{form} and ΔH_I^{form} are the heats of formation in series I and II of related compounds under identical conditions. This linear relation applies to the series

Card 1/3

L 1646-66 ENT(m)/EPF(c)/ENP(j)/ETC(m) RPL WW/JW/RM

ACCESSION NR: AP5021427

UR/0076/65/039/008/2076/2077
541.11

AUTHOR: Tel'noy, V. I.; Rabinovich, I. B.

TITLE: Heats of formation of tetramethyl and tetraethyl compounds of elements in group IV of the periodic system

SOURCE: Zhurnal fizicheskoy khimii, v. 39, no. 8, 1965, 2076-2077

TOPIC TAGS: tin organic compound, silicon organic compound, germanium organic compound, lead organic compound, heat of formation, heat of atomization, bond energy

ABSTRACT: To find the heats of formation of the compounds $(CH_3)_4El$ and $(C_2H_5)_4El$, where $El = Si, Ge, Sn, \text{ and } Pb$, use was made of a graphical method of comparative calculation proposed by M. Kh. Karapet'yants (Zh. fiz. khimii, 30, 593, 1956) and based on the fact that

$$\Delta H_{II}^{form} = A + B\Delta H_I^{form},$$

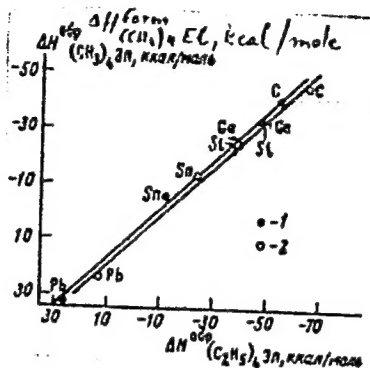
where ΔH_{II}^{form} and ΔH_I^{form} are the heats of formation in series I and II of related compounds under identical conditions. This linear relation applies to the series

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Graphs of $\Delta H^{\text{form}}_{(\text{CH}_3)_4\text{El}} = f(\Delta H^{\text{form}}_{(\text{C}_2\text{H}_5)_4\text{El}})$. ΔH^{form} = standard heat of formation; 1 - gaseous state; 2 - liquid state.

Card 3/3 DP

TEL'NOY, V.I.; RABINOVICH, I.B.

Heats of formation of tetraphenyl compounds of basic group IV of
the periodic table and element - carbon bond energy. Zhur. fiz.
khim. 39 no.9:2314-2316 S '65. (MIRA 18:10)

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